



SUBSTITUTE SPECIFICATION UNDER 37 C.F.R. 1.125

Disturbance Signal Reduction in Servo Systems

by

5

David Hyunchul Shim

Lin Guo

and

Jong-Ming Lin

10

Related Application

This application claims priority from U.S. Provisional Application Serial No.

60/394,854 entitled "Narrow-Band NRRO Reduction Using a Nonlinear Filter" filed on July 10, 2002 which is incorporated herein by reference.

OK to
enter
10/9 Dec 05

15

Field of the Invention

The present invention relates to reducing position errors due to disturbances in servo systems and, in particular, to reducing disturbance signals in disk drive servo systems.

20

Background of the Invention

A disk drive is a data storage device that stores servo and user data in substantially concentric tracks on a data storage disk. During disk drive operation, the disk is rotated about an axis while a transducer reads data from and/or writes data to a target track of the disk. A servo loop positions the transducer above the target track